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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,720	12/31/2003	Truman F. Kellie	SAM0025/US	9221
7590 10/03/2005			EXAMINER	
Michaele A. Hakamaki Kagan Binder, PLLC Maple Island Building, Suite 200 221 Main Street North Stillwater, MN 55082			ROYER, WILLIAM J	
			ART UNIT	PAPER NUMBER
			2852	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

ef

Office Action Summary	Application No. 10/749,720	Applicant(s) KELLIE, TRUMAN F.	
	Examiner William J. Royer	Art Unit 2852	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-17 is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 December 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>07182005; 07262004</u> . | 6) <input type="checkbox"/> Other: ____. |

This application is in condition for allowance except for the following formal matters:

Drawings

The drawings are objected to because of the following informalities:

In Figure 3, a lead line should be inserted and extended from reference numeral "251c" to the element reference numeral "251c" is being used to identify.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities:

In Figure 3, reference numeral "260" is shown, however, reference numeral "260" does not appear to be identified in the specification.

In Figure 6, reference numerals "210", "212" and "214" are shown, however, none of the noted reference numerals appear to be identified in the specification.

On page 2, line 28, change "a main" to --- the main ---.

On page 3, line 27, change "by a" to --- by the ---.

On page 4, line 11, change "feed" to --- fed ---.

On page 4, line 25, after "least" insert --- one ---.

On page 6, line 6, after "web" insert --- 110 ---.

On page 6, line 14, change "the roller" to --- roller ---.

On page 6, line 15, after "or" insert --- it ---.

On page 6, line 18, change "the image" to --- an image ---.

On page 6, line 18, change "web to the printer" to --- web 110 to a print ---.

On page 6, line 20, change "printer paper" to --- print paper 102 ---.

On page 6, lines 23 and 25, before "web" insert --- photoreceptor ---.

On page 6, line 24, after "rollers" insert --- 111, 112 and 113 ---.

On page 7, lines 3 and 5, before "charger" insert --- main ---.

- On page 7, lines 5, 9 and 12, before "web" insert --- photoreceptor ---.
- On page 7, line 9, change "the laser" to --- laser ---.
- On page 7, line 13, after "units" insert --- 150a, 150b, 150c and 150d ---.
- On page 7, line 14, change "web" to --- photoreceptor web 110 ---.
- On page 7, line 18, after "LSUs" insert --- 140a, 140b, 140c and 140d ---.
- On page 8, lines 16 and 17, before "web" insert --- photoreceptor ---.
- On page 8, line 16, after "units" insert --- 150a, 150b, 150c and 150d ---.
- On page 8, line 30, after "paper" insert --- 102 ---.
- On page 9, line 6, change "a print" to --- the print ---.
- On page 9, lines 13 and 15, before "roller" insert --- electrostatic transfer ---.
- On page 9, line 13, before "web" insert --- photoreceptor ---.
- On page 9, line 15, before "paper" insert --- print ---.
- On page 9, line 21, change "roller" to --- electrostatic transfer roller 170 ---.
- On page 9, line 22, after "comprising" insert --- an ---.
- On page 9, line 29, delete --- like ---.
- On page 9, line 30, change "paper" to --- print paper 102 ---.
- On page 9, line 31, change "rollers" to --- fusing rollers 181 and 182 ---.
- On page 10, line 1, change "fixing" to --- fusing ---.
- On page 10, line 12, after "units" insert --- 150a, 150b and 150c ---.
- On page 10, line 13, before "unit" insert --- K-development ---.
- On page 10, line 20, after "printer" insert --- 100 ---.
- On page 11, line 24, after "photoreceptor" insert --- web ---.

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On page 11, lines 25, 29 and 30, before "web" insert --- photoreceptor ---.

On page 11, lines 27 and 31, after "units" insert -- 150a, 150b, 150c and 150d --.

On page 11, line 27, change "web" to --- photoreceptor web 110 ---.

On page 12, line 6, after "photoreceptor" insert --- web ---.

On page 12, line 8, change "web" to --- photoreceptor web 110 ---.

On page 12, lines 12, 13, 16 and 20, before each occurrence of "web" insert ---
photoreceptor ---.

On page 12, line 26, change "photoconductor" to --- photoreceptor web ---.

On page 12, line 29, change "squeeze nip G_3 " to --- nip N_3 ---.

On page 13, lines 2 and 3, change " G_3 " to --- N_3 ---.

On page 13, line 6, delete --- developer ---.

On page 13, line 16, change "belt" to --- web ---.

On page 13, line 24, before "web" insert --- photoreceptor ---.

On page 13, line 30, change "web" to --- photoreceptor web 206 ---.

On page 14, line 19, before "web" insert --- photoreceptor ---.

On page 14, line 19, after "units" insert 150a, 150b, 150c and 150d ---.

On page 18, line 8, change "developer" to --- development ---.

On page 19, line 13, after "photoreceptor" insert --- web ---.

On page 19, lines 15 and 17, change "belt" to --- web ---.

Appropriate correction is required.

The abstract of the disclosure is objected to because of the inclusion of legal phraseology (i.e., comprising; comprises). Correction is required. See MPEP § 608.01(b).

Claim Objections

Claims 1, 14 and 15 are objected to because of the following informalities:

Claim 1, line 3, before "web" insert --- photoreceptor ---.

Claim 1, line 12, after "around" insert --- the ---.

Claim 1, line 13, change "images" to --- image ---.

Claim 1, line 13, change "in" to --- by ---.

Claim 14, line 1, after "wherein" insert --- the ---.

Claim 15, line 2, before "development" insert --- at least one ---.

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Allowable Subject Matter

Claims 1-17 are allowable over the prior art of record because the prior art of record fails to teach or suggest providing a development unit which includes a developer roller, a toner removal roller, and a squeeze roller, and at least one of the developer roller, the toner removal roller, and the squeeze roller having a corresponding backup roller adjacent to a back surface of a photoreceptor web, and wherein the photoreceptor web is arranged to provide at least one degree of contact wrap around the at least one backup roller.

Relevant Prior Art

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chang et al '778, Shindo, Chang et al '898, Nishikawa and Shim et al each disclose the use of backup rollers in a development unit.

Park et al and Ahn et al each disclose a development unit that includes a developer roller, a toner removal roller and a squeeze roller.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Royer whose telephone number is (571) 272-2140. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur T. Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



William J. Royer
Primary Examiner
Art Unit 2852

wjr
September 30, 2005